

Article 19
We claim:-

1. A process for coating a substrate, wherein a suspension of crystalline oxide particles having a mean particle size of from 0.5 to 9.9 nm is applied to a substrate by coating, the suspending medium is evaporated and the coating on the substrate is sintered.
2. A process for coating a substrate as claimed in claim 1, wherein oxide particles having a mean particle size of from 0.6 to 9 nm are used.
3. A process for coating a substrate either of claims 1 and 2, wherein the oxide particles used are BaTiO_3 , SrTiO_3 , $\text{Ba}_x \text{Sr}_{1-x} \text{TiO}_3$ where $x = 0.01$ to 0.99 , $\text{Pb} (\text{Zr}_x \text{Ti}_{1-x}) \text{O}_3$ where $x = 0.01$ to 0.99 , $\text{Bi}_{4-x} \text{La}_x \text{Ti}_3 \text{O}_{12}$ where $x = 0$ to 4 or $\text{Sr Bi}_2 \text{Ta}_2 \text{O}_9$.
4. A process for coating a substrate any of claims 1, 2 and 3, wherein the suspending medium used is an alcohol or a glycol ether.